
Configuring PRI

Basic PRI configuration

PRI loops must be configured before defining DCH links or ISDN features. The following procedure outlines configuring the PRI loops, DCHI interface, DCH link and applications that are enabled as part of the overall configuration. These include:

- Basic Call Service
 - setting up and tearing down
- Electronic Switched Network (ESN) interworking

Default call types

When an ISDN call is made, a default call type is set initially. See Table 3. The call type is set depending on the dialing method used.

Modification of call types

The call type of an ISDN call can be modified automatically by software or you can use service change. See Table 3.

- Outgoing default UKWN or SPN call types over central office trunks go through automatic digit analysis of the final called number. This determines the call type according to North American Dialing Plans E.163 and E.164.
- For outgoing ISDN calls over CO trunks with LOC, CDP, SPN, and UKWN, a 10- or 11-digit dialing plan, the CLID automatically reflects 10 digits.

- The final call type of a direct dialed ISDN call (over a TIE trunk) can be modified in LD 16. The CTYP prompt in LD 16 permits you to modify the outgoing call types of PRI/ISL routes. This prompt, which is applicable only to TIE trunks, can have one of the aforementioned call types with UKWN as default.

Note: The CTYP prompt applies to Direct Trunk Access only.

Table 3
Default call types

Dial method	Default call type	Comment
Direct dial	UKWN (unknown)	Direct dial to trunks using Trunk Access Code
CDP (DSC/TSC)	CDP (Coordinated Dialing Plan)	Dial CDP number using DSC/TSC code
CDP (LSC)	UKWN	Dial CDP number using LSC code
ESN (LOC)	LOC (location code)	Dial NARS location code
ESN (HLOC)	UKWN	Dial ESN HLOC number
ESN (NPA)	NPA (national)	Dial ESN NPA number
ESN (NXX)	NXX (local)	Dial ESN NXX number
ESN (SPN)	SPN (special number)	Dial ESN SPN number

Configuring PRI capability and applications

Features enabled as part of basic PRI configuration, or provided directly by DMS-100 are not included in this document. These include the following:

- Basic Call Service: configured as part of basic PRI
- Call Redirection and Call Forwarding: configured as part of basic PRI
- Private Network Hopoff: provided by DMS-100
- Private Network Overflow: provided by DMS-100
- Public Switched Telephone Network Equal Access and Special Number Service: provided by DMS-100

Descriptions for the following are given in the ISDN features description modules:

- Attendant and Network Wide Remote Call Forward
- Attendant Blocking of DN
- Backup D-channel
- Basic Call Service
- BRI/PRI Basic Call interworking
- Call Forward/Hunt Override via Flexible Feature Code
- Call Pickup Network Wide
- Calling Line Identification
- Calling Party Privacy
- Data Packet Network access
- Digital Trunk Interface replacement
- Electronic Lock Network Wide/Electronic Lock on Private Lines
- Electronic Switched Network interworking
- Incoming Trunk Programmable Calling Line Identification
- Integrated Services Access
- ISDN Signaling Link
- Integrated Trunk Access

- Meridian Network Services Drop Back Busy/Off-Hook Queuing
- MWI internetworking with DMS
- National ISDN 2 TR-1268 Primary Rate Interface
- Network Attendant Service
- Network Call Party Name Display/Network Name Delivery
- Network Call Redirection
- Network Intercom (Hot Type D and Hot Type I Enhancements)
- Network Message Services
- Network Ring Again
- Remote Virtual Queuing/Originating Routing Control
- Software Defined Network access
- Software Release ID
- T309 Timer
- Trunk Optimization (before answer)

Note 1: Some networking features require a numbering plan in order to operate. Network Message Services, Network Attendant Service, Network Ring Again, and Network ACD must be used with a Universal or Coordinated Dialing Plan (UDP or CDP).

Note 2: The tariff is approved for ISDN PRI as of 1992.

PRI configuration

The following procedures show how to configure PRI only. For specific features (ISA or ISL, for example) refer to the individual feature modules found later in this document.

X11 release 18 and later requirements

X11 release 18 changes LD 17 prompt and response sequences. The introduction of the MSDL card adds new options to LD 17. Be sure to use the correct procedure to configure PRI for your system (X11 release 18 and later, or X11 release 17 and earlier). Pay close attention to the following guidelines:

- The primary and backup D-channels must be on the same card type (DCHI QPC757 or MSDL NT6D80).

- The parameters defined for the primary D-channel are automatically copied to the backup D-channel (except for BCHL and RCVP).
- The D-channels must be disabled before making any changes.
- Changes to the D-channel pair should be made to the primary D-channel first (except for BCHL and RCVP).
- The backup D-channel must be removed prior to removing the primary D-channel.
- When a backup D-channel is configured for a primary D-channel, the USR of the primary can be changed from SHA to ISLD or PRI, but not from ISLD to PRI or SHA.

Use the following procedures to configure PRI capability and applications:

- 1** LD 73 Digital Data Block
Set error detection thresholds and clock synchronization control.
Required only when configuring PRI for the first time. Optional for subsequent configurations.
 - 2** LD 17 Configuration Record
Add a PRI loop
 - 3** LD 73 Digital Data Block
Change existing thresholds, or change tracking modes.
This can be done any time after Procedures 2 or 2.
 - 4** LD 17 Configuration Record
Add a DCHI card and the D-channel link.
X11 release 17 and earlier
- OR*
- 5** LD 17 Configuration Record
Add a DCHI card, or an MSDL card and the D-channel link.
X11 release 18 and later
 - 6** LD 15 Customer Data Block
Define a PRI customer.
Required only when configuring a new PRI customer. If PRI is already defined, skip this procedure.

- 7 LD 16 Trunk Route Administration
 Configure PRI trunk routes.
- 8 LD 14 Trunk Administration
 Add PRI trunks.

Procedure 1

The following prompts in LD 73 require a response before adding PRI loops (Part 1 of 2)

Prompt	Response	Description
REQ	NEW	Create a PRI data block
TYPE	DDB	Digital data block
PREF	loop	Primary reference source for clock controller (0–511)
		Free run mode
	<cr>	No primary or secondary reference source assigned X preceding the number deletes existing primary reference source
SREF	loop	Secondary reference source for clock controller (0–511) prompted only if PREF is not free run
		Free run mode
	<cr>	No primary or secondary reference source assigned X preceding the number deletes existing secondary reference source
TRSH	0–15	Create or change a PRI threshold set Enter this number in LD 17 when defining the PRI loop
		X preceding number deletes threshold set
RALM	1–(3)–128	Yellow alarm (remote alarm) 24-hour threshold Number of remote alarm clear signals received in 24 hours
		If the threshold is reached, the PRI must be restored to service manually
BIPC	0–(2)–128	24-hour bit rate violation threshold If zero is entered, trunks are restored to service automatically
		With D2, D3, or D4 framing format, bipolar violation threshold With ESF, Cyclic Redundancy Check (CRC) threshold

Procedure 1**The following prompts in LD 73 require a response before adding PRI loops (Part 2 of 2)**

Prompt	Response	Description
LFAC	0-(3)-128	24-hour loss of frame alignment threshold If zero is entered, trunks are restored to service automatically
BIPV		Bit rate (bipolar violation and CRC) monitoring limits
	1-(3)-4	Maintenance threshold
	1-(2)-4	Out-of-service threshold
SRTK		Frame slip tracking monitoring limits
	1-(5)-24	Maintenance threshold, the minimum time, in hours, between slips
	1-(30)-3600	Out-of-service threshold, the maximum number of slips per hour
SRNT		Frame slip free run (nontracking) monitoring limits
	1-(15)-1024	Maintenance threshold, the minimum time, in seconds, between 10 consecutive slips
	1-(3)-1024	Out-of-service threshold, the minimum time, in seconds, between 10 consecutive slips. See "Coordinating PRI parameters" and <i>ISDN Primary Rate Interface maintenance</i> (553-2901-500) for a description of the automatic recovery sequence.
LFAL		Loss of frame alignment monitoring limits
	1-(17)-10240	Maintenance threshold
	1-(511)-10240	Out-of-service threshold
SARR	YES-(NO)	Automatic recovery allowed after out-of-service condition
SRGT	1-(15)-30	Auto recovery guard timer in minutes (X11 release 14 and earlier only)
SRMM	1-(2)-127	Slip rate exceeded maintenance limit

Procedure 2**Use LD 17 to add a PRI loop (Part 1 of 2)**

Prompt	Response	Description
REQ	CHG	Change parameters in LD 17
TYPE	CFN	Configuration data block
CEQU	YES	Change common equipment options
DLOP	loop dd ff	PRI loop parameters: loop = Network loop number (0–159) dd = Number of data calls (0–24) ff = Frame format: D2, D3, D4, (ESF) Frame format must match the far end.
MODE	PRI	Primary Rate Interface mode
LCMT	(B8S), AMI	Line encoding method must match the far end B8S = B8ZS coding format AMI = B7 coding format (Alternate Mark Inversion)
YALM	FDL, DG2	Yellow alarm (remote alarm) method Prompted only if the frame format is ESF must match the far end. If NOT prompted, DG2 was set automatically Use FDL with ESF in the U.S. FDL or DG2 can be used in Canada

Procedure 2**Use LD 17 to add a PRI loop (Part 2 of 2)**

Prompt	Response	Description
TRSH	0–15	The maintenance and performance threshold set for this PRI, as defined by prompt TRSH in LD 73
DTIC	0–159	Starting network loop slot for the PRI card This prompts asks the technician to tell the system what card slot is used by the T1. This makes these loops unavailable for other use. X preceding the loop number returns the loops for system use. The loop number must be even. In system option 21, each network slot has one superloop (four loops). Since the PRI card takes two slots, eight loops are used per PRI, and therefore are unavailable. When installed on a network expansion shelf, enter carriage return and ignore the SCH2035 message. This indicates that the T1 is not in an intelligent bus. Do not input loop numbers that take the system out of its bounds.

Procedure 3**The following prompts in LD 73 require a response to change tracking or thresholds
(Part 1 of 2)**

Prompt	Response	Description
REQ	CHG	Change a PRI data block
TYPE	DDB	Digital data block
PREF	loop	Primary reference source for clock controller (0–511)
		Free run mode
	<cr>	No primary or secondary reference source assigned X preceding the number deletes existing primary reference source
SREF	loop	Secondary reference source for clock controller (0–511) Prompted only if PREF is not free run
		Free run mode
	<cr>	No primary or secondary reference source assigned X preceding the number deletes existing secondary reference source
TRSH	0–15	Create or change a PRI threshold set Enter this number in LD 17 when defining the PRI loop
		X preceding number deletes threshold set.
RALM	1–(3)–128	Yellow alarm (remote alarm) 24-hour threshold Number of remote alarm clear signals received in 24 hours
		If the threshold is reached, the PRI must be restored to service manually
BIPC	0–(2)–128	24-hour bit rate violation threshold If zero is entered, trunks are restored to service automatically
		With D2, D3, or D4 framing format, bipolar violation threshold With ESF, Cyclic Redundancy Check (CRC) threshold
LFAC	0–(3)–128	24-hour loss of frame alignment threshold If zero is entered, trunks are restored to service automatically

Procedure 3

**The following prompts in LD 73 require a response to change tracking or thresholds
(Part 2 of 2)**

Prompt	Response	Description
BIPV		Bit rate (bipolar violation and CRC) monitoring limits
	1-(3)-4	Maintenance threshold
	1-(2)-4	Out-of-service threshold
SRTK		Frame slip tracking monitoring limits
	1-(5)-24	Maintenance threshold, the minimum time, in hours, between slips
	1-(30)-3600	Out-of-service threshold, the maximum number of slips per hour
SRNT		Frame slip free run (nontracking) monitoring limits
	1-(15)-1024	Maintenance threshold, the minimum time, in seconds, between 10 consecutive slips
	1-(3)-1024	Out-of-service threshold, the minimum time, in seconds, between 10 consecutive slips. See "Coordinating PRI parameters" and <i>ISDN Primary Rate Interface maintenance</i> (553-2901-500) for a description of the automatic recovery sequence.
LFAL		Loss of frame alignment monitoring limits
	1-(17)-10240	Maintenance threshold
	1-(511)-10240	Out-of-service threshold
SRIM	(1)-127	Slip rate improvement time in minutes
SRMM	1-(2)-127	Slip rate exceeded maintenance limit

Procedure 4

Use LD 17 to add a DCHI card and the D-channel interface (X11 release 17 and earlier)
(Part 1 of 3)

Prompt	Response	Description
REQ	CHG	
TYPE	CFN	Configuration data block
ISDN	YES	Change DCHI parameters
DCHI	1–15	DCHI port number, only odd numbers are allowed
BCHI	(0)–1–15	Backup DCHI port number
USR	PRA	D-channel is for ISDN PRI only
	ISLD	D-channel is for ISL in dedicated mode
	SHA	D-channel is for ISL in “shared” mode
IFC	aaaa	Interface type aaaa = (DMS1), D250, ESS4, ESS5, SL-1, S100
RCVP	YES, (NO)	Recovery to primary D-channel option prompted only when BCHI has a number entered. When RCVP=YES, the primary D-channel automatically returns as the active D-channel when it recovers. When RCVP = NO, the backup D-channel remains active even after the primary D-channel recovers. Both sides must be either YES or NO. If the two sides do not match, both sides default to NO. If IFC = D100, D250, SL100, or ESS4, RCVP defaults to NO.
DCHL	0–159	PRI loop number for DCHI One DCHI card can support up to 15 PRIs when backup D-channel is configured
BCHL	0–159	PRI loop number for BCHI <cr> when BCHI = 0
OTBF	1–(16)–127	Number of output request buffers

Procedure 4

Use LD 17 to add a DCHI card and the D-channel interface (X11 release 17 and earlier)
(Part 2 of 3)

Prompt	Response	Description
DRAT	56K 64KC 64KI	D-channel transmission rate must match the far end 56 kbps, default when LCMT is AMI 64 kbps clear, default when LCMT (LD 17) is B8S 64 kbps inverted HDLC (64 kbps restricted) In X11 release 15 and later, DRAT is not prompted when configuring ISL D-channels because the speed is controlled by the modem baud rate.
PRI	loop id	Additional loops using the same D-channel loop = loop number (0–159) id = interface ID (2–15) Up to 16 loops can be supported, including the 14 loops that can be entered here and the primary and backup D-channel loops that are assigned automatically. The primary and backup D-channels are assigned to ID 0 and 1, respectively. This cannot be changed.
SIDE	MAS, (SLAV)	Prompted only if IFC is set to Meridian 1. One side of the PBX-to-PBX interface must be set as the “master,” the other must be set as the “slave.”
RLS	xx	X11 or BCS release of far end. Enter release only, not issue. For example, acceptable responses are 14, 15, 16, 17, 29, 30, 31, 32.
RCAP	aaa	Remote D-channel capability aaa = NCT, ND1, ND2 NCT = Network Call Trace ND1 = Network Name Delivery method 1 (X11 release 13 and greater) ND2 = Network Name Delivery method 2 (X11 release 17 and greater) Xaaa removes the capability.
CLOK	EXT	D-channel clock type Source of primary clock is external to DCHI card Always use EXT for PRI.

Procedure 4**Use LD 17 to add a DCHI card and the D-channel interface (X11 release 17 and earlier)**
(Part 3 of 3)

Prompt	Response	Description
LAPD	YES, (NO)	Change LAPD parameters Select YES to activate timers during system set up. The following prompts appear when LAPD = YES. <i>Note:</i> When adding a D-channel the MEM AVAIL data is output after this prompt, indicating the channel has been added. You can therefore abort the program without going to the REQ prompt.
_T23	1–(20)–31	Interface guard timer Checks how long the interface takes to respond In units of 0.5 seconds, default of 20 = 10 seconds
_T200	2–(3)–40	Retransmission timer In units of 0.5 seconds, default of 3 = 1.5 seconds
_T203	2–(10)–40	Maximum time allowed without frames being exchanged in seconds
_N200	1–(3)–8	Maximum number of retransmissions
_N201	4–(260)	Maximum number of octets in information field
_K	1–(7)–31	Maximum number of outstanding unacknowledged frames (NAKS)

Procedure 5

Use LD 17 to add a DCHI card, or an MSDL card and the D-channel interface (X11 release 18 and later) (Part 1 of 2)

Prompt	Response	Description
Note: With X11 release 19, ADAN is prompted in two ways: Type = ADAN, or Type = CFN. For purposes of consistency, we show one sequence here. Refer to <i>X11 input/output guide</i> (553-3001-400) for complete prompt/response sequences.		
TYPE	CFN	Configuration Record
ADAN	NEW DCH 0–63	Add a primary D-channel (can also CHG and OUT DCH)
CTYP	DCHI, MSDL	Card type
DNUM	0–15	Device number: physical port (odd) for D-channel on DCH, physical card address for MSDL
_PORT	0–3	Port number on MSDL card
USR	PRI, ISLD, SHA	D-channel mode
_ISLM	1–382	Number of ISL trunks controlled by the D-channel
DCHL	0, 2, 4, ... 159	PRI loop number for DCHI
PRI	0–159 2–15	Additional PRI loops using the same D-channel, and interface ID
OTBF	1–(32)–127	Number of output request buffers
_BPS	xxxx	Baud rate for ISL D-channel on MSDL port (default 64000)
_PARM	R232,(R422) DCE, (DTE)	ISL D-channel interface and transmission mode (MSDL port only)
DRAT	(56K), 64KC, 64KI	D-channel transmission
IFC	aaa	Interface type: SL1, S100, (D100), D250, ESS4, ESS5
SIDE	NET, (USR)	Meridian 1 node type
RLS	xx	Release ID of the switch at the far end of the D-channel
RCAP	MSL, NCT, ND1, ND2, RVQ, BRI	Remote D-channel capabilities

Procedure 5**Use LD 17 to add a DCHI card, or an MSDL card and the D-channel interface (X11 release 18 and later) (Part 2 of 2)**

Prompt	Response	Description
Note: With X11 release 19, ADAN is prompted in two ways: Type = ADAN, or Type = CFN. For purposes of consistency, we show one sequence here. Refer to <i>X11 input/output guide</i> (553-3001-400) for complete prompt/response sequences.		
_CLOCK	INT, (EXT)	Internal or external clock on ISL D-channels
LAPD	Yes, (No)	D-channel LAPD parameters
__T23	1–(20)–31	Interface guard timer (DCHI only)
__T200	2–(3)–40	Retransmission timer
__N200	1–(3)–8	Maximum number of retransmissions
__N201	4–(260)	Maximum number of octets in information field
__T203	2–(10)–40	Maximum time (in seconds) without frames being exchanged
__K	1–(7)	Maximum number of outstanding frames
ADAN	NEW BDCH 0–63	Add a backup D-channel
PDCH	0–63	Primary D-channel
CTYP	DCHI, MSDL	Card type (automatically printed because it must be the same as primary D-channel)
DNUM	0–15	Physical port (odd) for D-channel, card number for MSDL
_PORT	0–3	Port number on MSDL card
BCHL	0,2,4, ... 159	PRI loop number for back-up D-channel
RCVP	Yes, (No)	Auto-recovery to primary D-channel option
ADAN	<cr>,****	Go on to next prompt or exit overlay

Procedure 6**Use LD 15 to define a PRI customer (Part 1 of 2)**

Prompt	Response	Description
REQ	NEW, CHG	Add or change a customer
TYPE	CDB NET_DATA	Customer data block Networking Data (Release 21 gate opener)
CUST	0-99	Customer number
LDN0	xxxx . . x	Listed Directory Number 0 length This value must be set to terminate all incoming ISDN/DID calls. Determines the number of digits to translate.
ANAT	xxxx . . x	Attendant billing number ANAT and ANLD combined must be 7 digits.
ANLD	xxxx . . x	ANI listed DN ANLD and ANAT combined must be 7 digits.
AC2		Access Code 2 Enter call types (type of number) that use access code 2. This relates to ESN dialing plans. If you do not have a dialing plan, <cr> past this prompt. Multiple responses are permitted. If a call type is not entered here, it automatically defaults to access code 1.
	NPA NXX INTL SPN LOC	E.164 National E.164 Subscriber International Special number Location code (prompted only for NARS)
ISDN	Yes	Change ISDN options
- PNI	1-32700	Private Network Identifier (for CLID)

Procedure 6

Use LD 15 to define a PRI customer (Part 2 of 2)

Prompt	Response	Description
- PFX1	xxxx	Prefix (area) code for International PRA (for CLID)
- PFX2	xxxx	Central Office Prefix for IPRA (for CLID)
- HNPA	100–999	Home Number Plan Area code (for CLID)
- HNXX	100–999	Prefix for Central Office (for CLID)
- HLOC	100–9999	Home Location Code (ESN) (for CLID)
- LSC	xxxx	Local steering code (for CLID)
- CNTP	LDN, (PDN)	Default for Calling Line ID (CLID)
- RCNT	0–(5)	Maximum internode hops in a network redirection call

Procedure 7

Use LD 16 to define a PRI trunk route (Part 1 of 4)

Prompt	Response	Description
REQ	NEW	Add a PRI trunk route
TYPE	RDB	Type of data
CUST	0–99	Customer number
ROUT	0–511	Route number
TKTP	aaa	Trunk route type: DID, FEX, FGDT, ISA, ISL, RLM, RLR, TIE, WATS
PRIV	Yes, (No)	Route is (is not) a private line route
ESN	Yes, (No)	ESN signaling
CNVT	Yes, (No)	Route to conventional switch
DDMI	xxx	Digit manipulation index
ATDN	(0)–xxxxxxx	Attendant DN of conventional main, ESN main, ESN node, or ETN node

Procedure 7**Use LD 16 to define a PRI trunk route (Part 2 of 4)**

Prompt	Response	Description
SAT	Yes, (No)	Trunk route via earth orbiting satellite transmission
RCLS	INT, (EXT)	Route classmarked as internal, (external)
DTRK	Yes, (No)	Digital trunk route
BRIP	Yes, (No)	ISDN BRI packet handler route
DGTP	aaa	Digital trunk type
ISDN	Yes, (No)	ISDN PRI option
_MODE	PRA, ISLD	Mode of D-channel that controls the route
_DCHI	1–15	DCHI port number prompted if Mode = ISLD
_PNI	0–32700	Customer Private ID (unique to a customer)
_IFC	xxxx	Interface machine type for this PRI route
_SRVC	aaa	Service provisioned for AT&T ESS connections: (NSF), ACC, I800, LDS, M800, MEG, SDN, IWAT, WATM, WATB Note: NSF = services provided on a call-by-call basis.
_SRPM	0–(15)–255	Service parameter prompted if SRVC = WATB
_NCNA	(Yes), No	Network call name allowed
_NCRD	(No), Yes	Network Call Redirection
_TRO	Yes, (No)	Trunk optimization allowed (denied) on the route
_NSF	Yes, (No)	Network Service Facility
_COTR	0–511	Incoming DID/CO route number
_TIER	0–511	Incoming TIE route number
_WATR	xxx	WATS route number
_CHTY	ABCH, (BCH)	Signaling type for B-channel digital routes
_CTYP	aaa	Call type for outgoing direct dialed TIE route

Procedure 7
Use LD 16 to define a PRI trunk route (Part 3 of 4)

Prompt	Response	Description
_INAC	Yes, (No)	Insert ESN access code to incoming private network call
NCOS	(0)–99	Network Class Of Service
CLS	aaa	Class of service restriction for tie route
TGAR	0–31	Trunk group access restrictions
IEC	000–999	Interexchange carrier ID
PTYP	aaa	Port type at far end
AUTO	Yes, (No)	Auto-terminate trunks
ICOG	IAO, ICT, OGT	Incoming and/or outgoing trunk
SRCH	RRB, (LIN)	Round robin or linear outgoing trunk search
ACOD	xxx ... x	Trunk route access code
SIGO	aaa	Signaling arrangement
NEDC	ORG, ETH	Near end disconnect control
FEDC	ETH, FEC, JNT,(ORG)	Far end disconnect control
CPDC	Yes, (No)	Meridian 1 is the only controlling party on incoming calls
SPCT	DLY, (IMM)	Delayed or immediate cut-through speech path control
DLTN	Yes, (No)	Provide dial tone to the far-end

Procedure 7**Use LD 16 to define a PRI trunk route (Part 4 of 4)**

Prompt	Response	Description
PSEL	TLNK, (DMDM)	T-link or DM-DM protocol selection
EQAR	Yes, (No)	Enable Equal Access on this route
_GCR	(Yes), No	Use General Carrier Restriction for Equal Access calls
_NTOL	ALLOW, (DENY)	Allow or deny North American toll calls (1+ calls)
_ITOL	ALLOW, (DENY)	Allow or deny international toll calls (011+ calls)
_SCR	Yes, (No)	Use Selective Carrier Restriction for Equal Access calls
AUTH	Yes, (No)	Authcode to be prompted for incoming tie callers
FGNO	(0)–127	Feature Group D block number
TDET	Yes, (No)	Tone detector required
TTBL	(0)–31	Tone table number

Procedure 8**Use LD 14 to define a PRI trunk (Part 1 of 2)**

Prompt	Response	Description
REQ	New	Create a PRI trunk Note: When assigning several numbers at once—i.e., a full T-1—use the multiple create command New XXX. The maximum number is 255.
TYPE	aaa	Trunk type DID, FEX, FGDT, ISA, ISL, RLM, RLR, TIE, WATS Note: Per FCC regulations, DID trunks must be designated for answer supervision. Refer to “FCC compliance for DID answer supervision” in <i>X11 features and services</i> (553-3001-305).
TN	I s c u, l ch	Terminal Number, or loop and channel
XTRK	XUT, XEM	Universal trunk card, Enhanced E&M trunk card
SFEX	Yes, (No)	Special digital FEX trunk
CUST	0–99	Customer number
NCOS	xx	Network Class of Service group number
RTMB	rrr mmm	Route number and member number
CHID	xx	Channel ID for this trunk
MNDN	xxxx	Manual Directory Number
PRDN	xxxx	Private line Directory Number
CMF	Yes, No	Call modification for private lines
RLDN	xxxx	Release Link trunk Directory Number
NITE	xxxx	Night Service Directory Number
TGAR	(0)–31	Trunk group access restriction
SIGL	aaa	Trunk signaling
CDEN	SD, DD	Single or double card density
EMTY	TY1, (TY2)	4-wire E&M type 1 or 2

Procedure 8**Use LD 14 to define a PRI trunk (Part 2 of 2)**

Prompt	Response	Description
CPAD	CIN, (COUT)	Carrier interface pad in (out) for 4-wire E & M TIE trunks
LDOP	bop, (loop)	Loop Dial Outpulsing
TIMP	(600), 900, 1200	Termination impedance
BIMP	600, (3com)	Balance impedance 3-component or 600 ohms
CDEN	SD, DD	Single or double density card
STRI	aaa	Incoming start arrangement
STRO	aaa	Outgoing start arrangement
SUPN	Yes, No	Answer and disconnect supervision required
FCAR	Yes, (No)	Forced Charge account
CLS	aaa	Class of service options

Asynchronous port configuration (X11 release 17 and earlier)

The following procedure describes how to configure the asynchronous port of the QPC757 or the NT6D11AB D-channel card as a Serial Data Interface (SDI) port. This SDI port is able to serve as a QPC139 circuit. As defined here, the asynchronous port is only an even numbered port.

Note: The port should be set for DCE and RS-232-C interface options. See *ISDN Primary Rate Interface installation* (553-2901-200) for the socket locations.

Procedure 9

Respond to the following prompts in LD 17 (Part 1 of 2)

Prompt	Response	Description
REQ	CHG	Change the configuration
TYPE	CFN	Configuration record
IOTB	YES	Change input/output device
ADAN	NEW TTY x	New TTY number x = TTY port address as set by the card switch settings
ESDI	YES	This port uses an ESDI card
SYNC	NO	This port is not in synchronous mode
_DUPX	HALF, (FULL)	Duplex rate
_BPS	1200, 2400, (4800), 9600, 19200, 48000, 56000, 64000	Baud rate
_BITL	7, (8)	7 or 8 data bit length
_STOP	(1), 1.5, 2	Number of stop bits Enter 1x5 for 1.5
_PRTY	ODD, EVEN, (NONE)	Parity
_FLOW	CTS, XON, (NONE)	Flow control
_USER	aaa	Output message types

Procedure 9**Respond to the following prompts in LD 17 (Part 2 of 2)**

Prompt	Response	Description
		aaa = BUG, CDL, CTY, MTC, SCH, TRF (among others, see <i>X11 input/output guide</i> (553-3001-400))

Asynchronous port configuration (X11 release 18 and later)

The following procedure describes how to configure the asynchronous port on the QPC757 DCHI card as a Serial Data Interface (SDI) port. This SDI port is able to serve as a QPC139 circuit. As defined here, the asynchronous port is only an even numbered port.

Note: The port should be set for DCE and RS-232-C interface options. See *ISDN Primary Rate Interface installation* (553-2901-200) for the socket locations.

Procedure 10

Respond to the following prompts in LD 17

Prompt	Response	Description
REQ	CHG	Change the configuration
TYPE	CFN	Configuration record
ADAN	NEW TTY x CHG TTY x	New or changed TTY number x = TTY port address as set by the card switch settings (even number)
CTYP	DCHI	This port uses a QPC757 DCHI card
DNUM	x	Device number automatically printed when ADAN = CHG
BPS	110, 150, 300, 600, (1200), 2400, 4800, 9600, 19200	Baud rate
PRTY	ODD, EVEN, (NONE)	Parity
STOP	(1), 2	Number of stop bits
BITL	7, (8)	7 or 8 data bit length
USER	aaa	Output message types aaa = BUG, CDL, CTY, MTC, SCH, TRF (among others, see <i>X11 input/output guide</i> (553-3001-400))
